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(71) Applicant:

OKAMOTO TOSHIHIKO SHIYUDO

KOICHI

(72) Inventor:

OKAMOTO TOSHIHIKO SUGIMURA TAKASHI KOSUGE TAKUO SHIYUDO KOICHI TSUJI KUNIO TAKEDA TAKASHI NAGAO MINAKO YAHAGI TAKIE

YAMAMOTO TAKESHI YAMAGUCHI KENTARO

KIYONO YUKO IITAKA YOICHI

(54) 2-AMINO-DIPYRIDO (1,2-A; 3',2'-D) IMIDAZOLE DERIVATIVE, ITS PREPARATION AND MUTAGENIC AGENT THEREFROM

(57) Abstract:

NEW MATERIAL:2-Amino-dipyrido [1,2-a; 3',2'-d] imidazole derivatives of formula I (R_1 is H, hydroxyl, halogen, lower alkyl, lower alkoxy; R' is H, lower alkyl; R_2 and R_3 are H, lower alkyl, acyl).

EXAMPLE: 2-Amino-6-methyldipyrido [1,2-a; 3',2-d] imidazole.

USE: Mutagenic agent; they are used to induce the mutation in microorganisms and improvement of plants, having stronger activity than known mutagens.

PREPARATION: Some compounds of formula I can be obtained by pyrolysis of glutamic acid. Industrially, the compound of formula V prepared from a cmpound of formula II and a compound of formula III or IV is, when desired, alkylated or acylated to give the compound of formula I.

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$$x - cR' = c < \frac{x'}{cR}$$

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